

3M General Offices
 3M Center
 St. Paul, Minnesota 55144-1000
 612/733 1110
 Duns No.: 00-617-3082

03-44
 3755

MATERIAL SAFETY
 DATA SHEET



DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME:
 3M Multi-Port Fuel Injection Cleaner PART NO. 08912 (1XD/1XC)
3M I.D. NUMBER: 62-4600-4909-1

ISSUED: DECEMBER 30, 1989
SUPERSEDES: SEPTEMBER 28, 1989
DOCUMENT: 10-9109-9

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
toluene	108-88-3	35.0 - 45.0	100	ppm	TWA	ACGIH
xylene isomers	1330-20-7	10.0 - 20.0	100	ppm	TWA	ACGIH
methyl alcohol	67-56-1	10.0 - 20.0	200	ppm	TWA	ACGIH
diacetone alcohol	123-42-2	10.0 - 20.0	50	ppm	TWA	ACGIH
ethylbenzene	100-41-4	1.0 - 10.0	100	ppm	TWA	ACGIH
isobutane ++	75-28-5	1.0 - 20.0	NONE	NONE	NONE	NONE
n-butane ++	106-97-8	0.5 - 5.0	800	ppm	TWA	ACGIH
propane ++	74-98-6	0.1 - 1.0	1000	ppm	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - OSHA: Occupational Safety and Health Administration
 - NONE: None Established

NOTE: ++ Propellant blend (n-butane, isobutane, and propane) is separate from other ingredients; propellant is not released from can.

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

xylene isomers
 methyl alcohol
 ethylbenzene

2. PHYSICAL DATA

BOILING POINT:..... Compressed gas
VAPOR PRESSURE:..... Compressed gas
VAPOR DENSITY: ca. 3.00 Air = 1
EVAPORATION RATE:..... > 5.00 Ether = 1
SOLUBILITY IN WATER: Slight
SP. GRAVITY:..... N/A
PERCENT VOLATILE: 100.00 %
VOLATILE ORGANICS: 860.00 gm/l
pH: N/D
VISCOSITY: N/A
APPEARANCE AND ODOR: Clear, liquid, heavy solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -50.00 F T.C.C.
 (propellant blend)
FLAMMABLE LIMITS - LEL: 1.27 %
FLAMMABLE LIMITS - UEL: 36.50 %
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
 CO2, foam, dry chemical

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M General Offices

03-44
3756

3M Center
St. Paul, Minnesota 55144-1000
612/733 1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Multi-Port Fuel Injection Cleaner PART NO. 08912 (1XD/1XC)
DECEMBER 30, 1989

PAGE: 2 of 5

3. FIRE AND EXPLOSION HAZARD DATA (continued)

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Extremely Flammable. Treat as pressurized container. Overheated, closed containers adjacent to fire could explode due to internal pressure buildup.

NFPA-HAZARD-CODES: HEALTH 2 FIRE 4 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

N/A

CONDITIONS TO AVOID: Do not store at temperatures above 120F. Do not puncture or incinerate.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

CO, CO2 and smoke particles when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

If cans rupture: Extinguish all ignition sources. Ventilate the area. Observe the precautions from other sections. Contain the spill. Cover with absorbent materials as needed. Collect spilled material. Place in a U.S. Department of Transportation - approved metal container, and seal.

RECOMMENDED DISPOSAL:

Incinerate absorbed and partially full cans after mixing with flammable material in a licensed hazardous waste facility. The facility must be capable of handling aerosol cans. Do not puncture or burn cans in a household incinerator. Dispose of empty cans in a sanitary landfill. Disposal should be in accordance with applicable regulations. U.S. EPA HAZARDOUS WASTE NO.: D001 (Ignitable).

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):

Maximum VOC = 860 grams/liter.

Maximum VOC minus Water minus Exempt Solvents = 860 grams/liter.

VOC's were calculated according to Rule 443.1 of the South Coast Air Quality Management District (SCAQMD).

SARA HAZARD CLASS:

FIRE HAZARD: Yes **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

Abbreviations: N/D - Not Determined N/A - Not Applicable

MATERIAL SAFETY
 DATA SHEET



MSDS: 3M Multi-Port Fuel Injection Cleaner PART NO. 08912 (1XD/1XC)
 DECEMBER 30, 1989

PAGE: 3 of 5

6. SUGGESTED FIRST AID

EYE CONTACT:

Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Wash with soap and water.

INHALATION:

Remove individual to fresh air. Call a physician.

IF SWALLOWED:

Immediately induce vomiting. Call a physician or poison control center.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks, flame and other sources of ignition. The vapors released by this product can be ignited easily and burn explosively. Do not take internally. Use only in areas with sufficient ventilation to maintain vapor/mist concentrations below recommended exposure limits. Avoid breathing vapor and mist (spray particulate). Prevent eye contact; wear chemical goggles when handling product. Avoid prolonged skin contact; wear impervious gloves. Keep out of the reach of children. Do not puncture or incinerate container. Do not store at temperatures above 120F. Use only as directed. Intentional misuse by deliberately concentrating and inhaling or swallowing the contents can be harmful or fatal.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS		AUTH	
	VALUE	UNIT	TYPE	
toluene	375	mg/m3	TWA	ACGIH
toluene	150	ppm	STEL	ACGIH
toluene	560	mg/m3	STEL	ACGIH
toluene	100	ppm	TWA	OSHA
toluene	375	mg/m3	TWA	OSHA
toluene	150	ppm	STEL	OSHA
toluene	560	mg/m3	STEL	OSHA
xylene isomers	435	mg/m3	TWA	ACGIH
xylene isomers	150	ppm	STEL	ACGIH
xylene isomers	655	mg/m3	STEL	ACGIH
xylene isomers	100	ppm	TWA	OSHA
xylene isomers	435	mg/m3	TWA	OSHA
xylene isomers	150	ppm	STEL	OSHA
xylene isomers	655	mg/m3	STEL	OSHA
methyl alcohol	260	mg/m3	TWA	ACGIH
methyl alcohol	250	ppm	STEL	ACGIH
methyl alcohol	310	mg/m3	STEL	ACGIH
methyl alcohol	200	ppm	TWA	OSHA

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M Center
St. Paul, Minnesota 55144-1000
612/733 1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEETMSDS: 3M Multi-Port Fuel Injection Cleaner PART NO. 08912 (1XD/1XC)
DECEMBER 30, 1989

PAGE: 4 of 5

7. PRECAUTIONARY INFORMATION (continued)**ADDITIONAL EXPOSURE LIMITS**

INGREDIENTS	EXPOSURE		LIMITS	
	VALUE	UNIT	TYPE	AUTH
methyl alcohol	260	mg/m ³	TWA	OSHA
methyl alcohol	250	ppm	STEL	OSHA
methyl alcohol	310	mg/m ³	STEL	OSHA
diacetone alcohol	240	mg/m ³	TWA	ACGIH
diacetone alcohol	50	ppm	TWA	OSHA
diacetone alcohol	240	mg/m ³	TWA	OSHA
ethylbenzene	435	mg/m ³	TWA	ACGIH
ethylbenzene	125	ppm	STEL	ACGIH
ethylbenzene	545	mg/m ³	STEL	ACGIH
ethylbenzene	100	ppm	TWA	OSHA
ethylbenzene	435	mg/m ³	TWA	OSHA
ethylbenzene	125	ppm	STEL	OSHA
ethylbenzene	545	mg/m ³	STEL	OSHA
n-butane ++	1900	mg/m ³	TWA	ACGIH
n-butane ++	800	ppm	TWA	OSHA
n-butane ++	1900	mg/m ³	TWA	OSHA
propane ++	1800	mg/m ³	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Spray particulate and vapor may cause eye irritation.

SKIN CONTACT: May cause skin irritation. Methyl alcohol (methanol) may be absorbed through the skin in amounts that may contribute to toxicity.

INHALATION: Vapor overexposure may cause respiratory system irritation and temporary nervous system impairment (light-headedness). Repeated or extreme overexposure to toluene vapors may cause nervous system damage. Overexposure to xylene vapors may cause heart, liver, kidney and blood damage based on animal studies. Methyl alcohol (methanol) vapor overexposure may cause respiratory system irritation, nervous system impairment and vision effects, including blindness. Methyl alcohol (methanol) may also cause blood changes, paralysis, nervous system and brain damage, and lung, liver, kidney and spleen effects. Overexposure to diacetone alcohol vapors may cause blood disorders and kidney damage. Symptoms of overexposure may include headache, dizziness, weakness, fatigue, and on extreme overexposure, unconsciousness.

INGESTION: Not an anticipated route of exposure due to the aerosol nature of the product. Harmful or fatal and may cause blindness if swallowed. Intentional concentrating and swallowing the liquid product may cause severe digestive system irritation, nausea and

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733 1110
Duns No.: 00-617-3082

03-44
3759

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Multi-Port Fuel Injection Cleaner PART NO. 08912 (1XD/1XC)
DECEMBER 30, 1989

PAGE: 5 of 5

8. HEALTH HAZARD DATA (continued)

vomiting. Solvent aspiration into the lungs as a result of vomiting
may cause lung damage, which can be fatal.

SECTION CHANGE DATES

ENVIRON. DATA SECTION CHANGED SINCE SEPTEMBER 28, 1989 ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.